

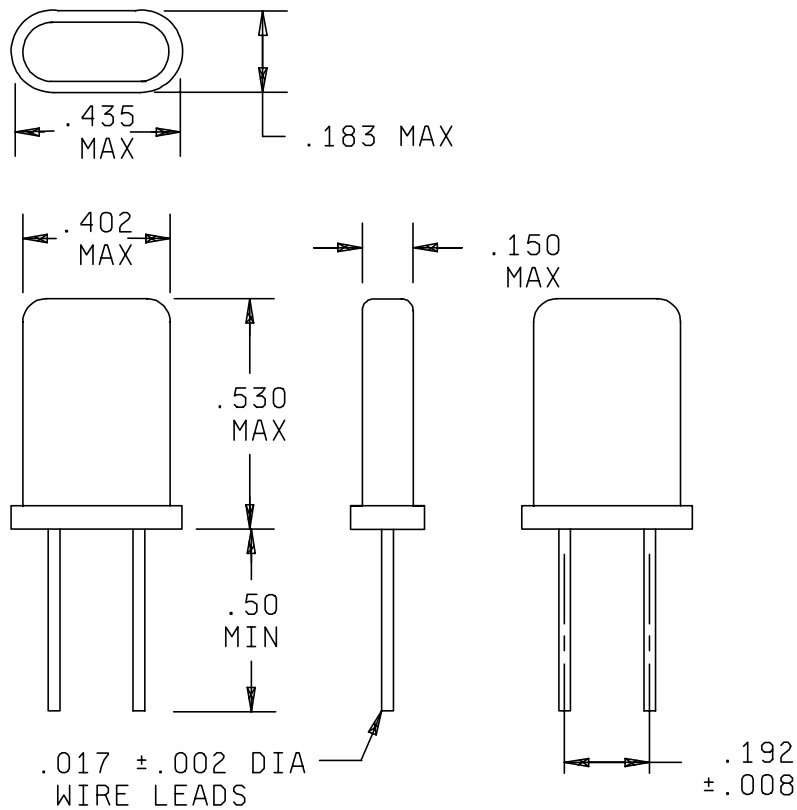
PERFORMANCE SPECIFICATION SHEET

CRYSTAL UNIT, QUARTZ, CR128/U

This specification is approved for use by all Departments and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification and MIL-PRF-3098.

Pertinent characteristics: 17 MHz to 61 MHz; third mechanical overtone; noncontrolled; series resonance.



Inches	mm
.002	.05
.008	.20
.017	.43
.150	3.81
.183	4.65
.192	4.88
.402	10.21
.435	11.05
.500	12.70
.530	13.46

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for general information only.
3. Marking to be in accordance with MIL-PRF-3098.

FIGURE 1. Crystal unit - CR128/U.

MIL-C-3098/108C

REQUIREMENTS:

Dimensions, marking, and configuration: See figure 1.

Frequency range: 17 MHz to 61 MHz, inclusive.

Capacitance, shunt: 7 pF, maximum.

Mode of oscillation: Third mechanical overtone.

Rated drive level: 1.0 mW, maximum.

Resonance: Series.

Operating temperature range (noncontrolled): -55°C to +105°C, inclusive.

Operable temperature range: +105°C to +125°C, inclusive.

Frequency tolerance (operating temperature range): ± 50 ppm.

Equivalent resistance: 40 ohms, maximum.

Shock (specified pulse):

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 15 percent or 2 ohms, whichever is greater.

Vibration: Method 204, MIL-STD-202, test condition A; 0.015 inch (0.03 inch total excursion) 10 Hz to 55 Hz; or an amplitude to produce 10 gravity units, 55 Hz to 500 Hz, whichever is the limiting value.

Frequency change permitted: ± 5 ppm.

Equivalent resistance change permitted: ± 15 percent or 2 ohms, whichever is greater.

Thermal shock: ± 50 ppm.

Aging:

Frequency change permitted: ± 10 ppm.

Marginal notations are not used in this revision to identify changes with respect to the previous issue due to the extent of the changes.

Custodians:

Army - CR

Navy - EC

Air Force -85

Review activities:

Air Force - 17, 19, 84

Preparing activity:

Army - CR

Agent:

DLA - CC

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